



COGSDILL TOOL

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MATERIAL SAFETY DATA SHEET

***BURRAWAY[®],
BURR-OFF[®],
MICRO-LIMIT[™],
KNURLING TOOLS,
ELLIPTI-BUR[®]***

SECTION I - PRODUCT IDENTIFICATION

Trade Names: Burraway®, Burr-Off®, Micro-Limit, Knurling Tools, Ellipti-Bur®
Synonyms: Deburring, chamfering, and countersinking tools
Product Usage: Hole-Deburring, Countersinking, Knurling

SECTION II - HAZARDOUS COMPONENTS

NAME	PERCENT BY WEIGHT	CAS. No.	OSHA PEL	ACGIH TLV
Carbon	.78-1.05%	7440-44-0	15mg/m ³ (Total Dust) 5mg/m ³ (Respirable)	2mg/m ³
*Chromium	3.75-4.5%	7440-47-3	1mg/m ³ (Total Dust)	0.5mg/m ³
Manganese	0.15-0.70%	7439-96-5	5mg/m ³ (Fume CL)	0.2mg/m ³
Molybdenum	4.5-5.5%	7439-98-7	15mg/m ³ (Total Dust)	10mg/m ³
Silicon	0.20-0.45%	7440-21-3	15mg/m ³ (Total Dust)	10mg/m ³
Tungsten	5.5-6.75%	7440-33-7	N.E.	1mg/m ³
*Vanadium	1.75-2.2%	1314-62-1	0.5mg/m ³ (Dust) CL 0.1mg/m ³ (Fume) CL	0.05mg/m ³

ALL HAZARDOUS CONSTITUENTS LISTED PERTAIN TO TOOL COMPONENTS SUBJECT TO NORMAL WEAR AND PARTS REPLACEMENT; ROLLS, MANDREL, AND CAGE.

CL = Ceiling Limit

N.E. = Not Established

PEL = Permissible Exposure Limit

TLV = Threshold Limit Value

* = Regulated as a toxic chemical under SARA Title III, Section 313, 40 CFR 372

SECTION III - PHYSICAL DATA

Boiling Point:	≥5000 Degrees F.	Melting Point:	Approx. 2500 Degrees F.
Specific Gravity:	Approx. 7.8-8.2 (60 Deg. F.)	Vapor Pressure:	N/A
Vapor Density (Air=1):	N/A	Solubility in Water:	Insoluble
Volatiles By Volume:	N/A	Evaporation (Butyl Acetate=1):	N/A
Appearance and Odor:	Various Shapes, Solid Odorless Metal		

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point: None

LEL: Not established

Fire Point: None

UEL: Not established

SECTION V - HEALTH HAZARD DATA

This product in the form it is sold is not considered to present a health hazard. Product used as intended may produce a slight exposure to dust or fume in a form that could affect exposed workers. Proper mechanical ventilation and other forms of protection are recommended.

Primary Routes of Exposure*: **Emergency First Aid:**

- Inhalation: Remove to fresh air, if condition continues - consult physician.
- Eye Contact: Flush well with running water to remove particulate. Get medical attention.
- Skin Contact: Brush off excess dust. Wash with soap and water.
- Ingestion: Seek medical attention if large quantities of dust material have been ingested.

*Routes of exposure are for dust released during metal working operations.

HEALTH EFFECTS

- CARBON - Irritation of eyes and mucous membrane.
- CHROMIUM - Low order of toxicity. May cause irritation to the eyes, skin, and respiratory tract. Chromium metal said to be involved in histological fibrosis of the lungs and is listed as a lung carcinogen.
- MANGANESE - Inhalation may cause cough or shortness of breath and may lead to bronchitis and pneumonitis. Ingestion may cause nausea or abdominal pain. Prolonged exposure can cause central nervous system damage.
- MOLYBDENUM - Low order of toxicity. May cause irritation to the eyes, nose, and throat.
- SILICON - May produce changes in the lungs without disability.
- TUNGSTEN - Low order of toxicity. May cause irritation to the eyes, skin, and respiratory tract.
- VANADIUM - Dust may cause irritation to the eyes, nose and throat. If inhaled will cause coughing or difficult breathing. May cause burning sensation to the skin.

CARCINOGENICITY

	NTP	IARC Monographs	OSHA Regulated
Chromium	Yes	Yes	Yes, PEL established

SECTION VI - REACTIVITY DATA

- Stability: Chemically Stable
- Incompatibility: May React with Strong Acids
- Hazardous Decomposition: Metallic Oxides

SECTION VII - SPILL OR LEAK PROCEDURES

- Steps to take in case of release or spill: N/A
- Waste disposal method: Solids: Sell as scrap or repair tool.
Follow federal, state and local regulations regarding disposal of grinding dust.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation Requirements:	General – Recommended Local – As required
Personal Protective Equipment Respiratory Protection:	If fume mist or dust conditions occur and exposure limits are exceeded, provide NIOSH approved respirators.
Eye Protection:	Safety glasses or face shield.
Gloves:	As required.
Other clothing or equipment:	As required.

SECTION IX - SPECIAL PRECAUTIONS

USE GOOD HOUSEKEEPING PROCEDURES TO PREVENT ACCUMULATIONS OF DUST AND TO KEEP AIRBORNE CONCENTRATIONS TO A MINIMUM.

DISCLAIMER

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It shall be the responsibility of the customer purchasing this product to ensure that all employees/users of the product shall be familiar with and trained in the handling, use and hazards associated with this product as contained herein. This responsibility shall also be extended to the user.